

## **ABSTRACT OF THE DISCLOSURE**

A data multiplexing apparatus (1) includes: a packet number obtainment unit (109) for obtaining the total number of packets included in one block on a private data packet stream inputted into  
5 a channel buffer (101); an address obtainment unit (110) for obtaining the address of the starting packet in each private data block; a null packet detection unit (111) for detecting null packets when a multiplexed packet stream of data other than the private data is outputted from the channel buffer (101); and a packet  
10 replacement unit (112) for replacing the multiplexed null packets detected by the null packet detection unit (111) with the private data packets and outputting the multiplexed packet stream.